

**ABSTRACT OF THE DISCLOSURE**

A system for dynamic blending of an image into an accumulation buffer. The blending system may include an accumulation buffer, an image buffer, and a mixing unit.

- 5 The mixing unit may be configured to read a stream of image pixels from the image buffer, to read a stream of corresponding pixels from the accumulation buffer, to blend each image pixel with the corresponding accumulation buffer pixel based on an alpha value provided with the image pixel, and thus, generate a stream of output pixels. The stream of output pixels may be returned to the accumulation buffer. The color depth
- 10 precision of the accumulation buffer may be larger than the color depth precision of the image buffer.